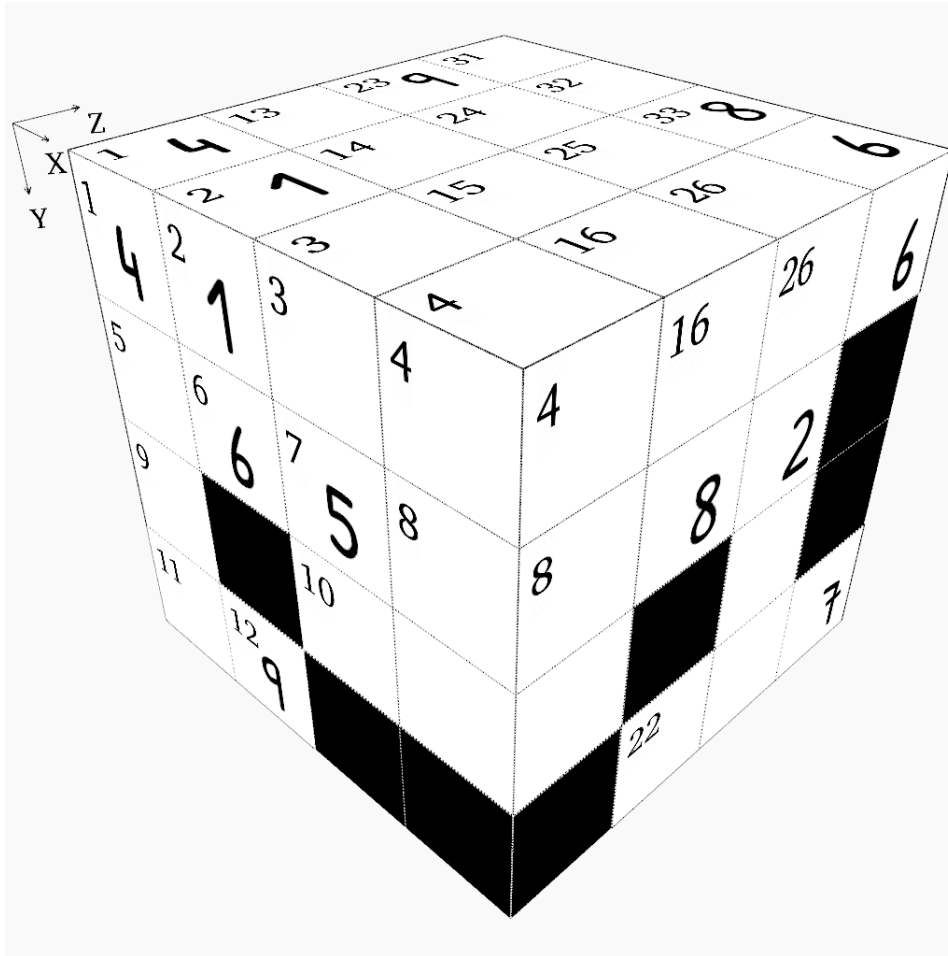


Difficulty: ☆☆☆☆☆

Cube - Beginner Puzzle #2



This puzzle is like a crossword, but with numbers. Each digit occupies a 3D block and can be a part of a "word" in the X,Y, and Z directions.

Rules:

1. "Words" may not start with a zero.
2. "Words" in the X direction read from left to right.
3. "Words" in the Y direction read from top to bottom.
4. "Words" in the Z direction read from front to back.
5. There is one unique solution which satisfies all the clues given below.
6. Some "words" may not have clues. They will be determined by the "words" which intersect them.

If we take the cube pictured above and divide it into individual X-Y layers, we will get these planes:

1 4	2 1	3	4	13	14	15	16	23 9	24	25	26	31	32	33 8	6
5	6 6	7 5	8		17	3	8		27		2	34		4	
9			10	18	19 6			28 8		29		4			
11	12 9			20 3	3	21 5	22		30				35		7

X Direction

- 1 Twice a prime number
- 5 Forty-six times a square
- 10 Twice a prime number
- 11 Z22 minus X10
- 13 Forty-seven times a prime number
- 17 Two-thirds of X35
- 18 Y32 reversed
- 20 Three times a prime number
- 23 A prime number
- 27 Mean of Y2 and Y4
- 28 Eighty-five times a prime number
- 30 Three times Z22
- 31 Thirty-three times X27
- 34 Twice a prime number
- 35 Mean of X11 and Y3

Y Direction

- 1 Five times a prime number
- 2 A square
- 3 Five times a prime number
- 4 Rearranged digits of Z8
- 14 Fifty-nine times a prime number
- 15 Y31 divided by thirty-eight
- 16 Z19 plus Y2
- 18 Z22 minus Z29
- 24 Eleven times a prime number
- 25 Ninety-four more than X20
- 26 Mean of Y14 and X23
- 31 Twenty-six times a prime number
- 32 Mean of X10 and X18
- 33 Fifteen times a prime number

Z Direction

- 1 Mean of Z12 and Y3
- 2 Z9 plus X27
- 3 Nine times Z8
- 4 Twelve times a prime number
- 6 A prime number
- 7 Rearranged digits of Y25
- 8 X5 minus X34
- 9 Three hundred thirty-nine less than Y24
- 11 Y25 divided by sixty-five
- 12 Ninety-four more than X23
- 19 Twice the result of Z29 minus Y15
- 21 X20 minus Z4
- 22 Nine times Y15
- 29 All digits are the same

Solution:

4	1	6	2	9	9	1	7	9	2	3	9	4	6	8	6
1	6	5	6		2	3	8		1	4	2	9	7	4	
1		5	8	7	6			8	2	4	5	4		4	
5	9			3	3	5	1		3	5	1		3	5	7